

DEPARTMENT OF PROJECT IMPLEMENTATION

Alexandria City Academy

April 15, 2021

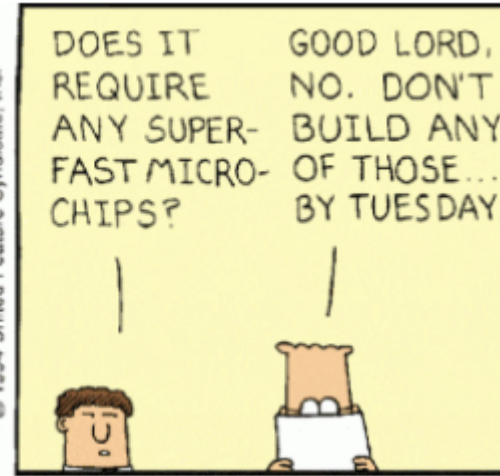




5-17
S. Adams
E-Mail: SCOTTADAMS@aol.com



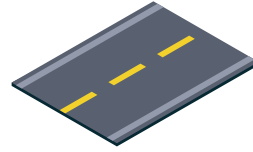
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WHAT ARE CAPITAL PROJECTS?

Capital Project Expenditures:

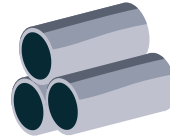
- \$10,000+
- Acquire, expand, repair, or rehabilitate a physical asset
- Useful life: > 3 years
- May include technology-related infrastructure



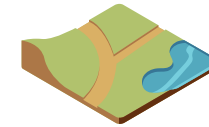
Roadways and Bridges



Public Transit Facilities



Stormwater and Sanitary Sewers



Streams and Ponds



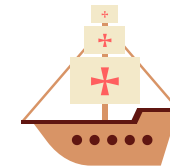
Technology Infrastructure



Government Facilities



Educational Facilities



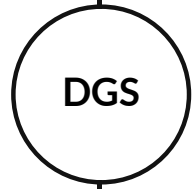
Historic Sites

WHO'S INVOLVED IN CAPITAL PROJECT DELIVERY?

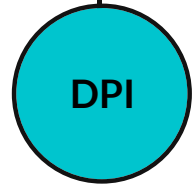
City Departments Engaged in Capital Project Delivery:



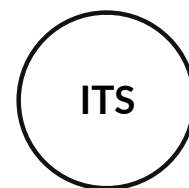
Alexandria City Public Schools



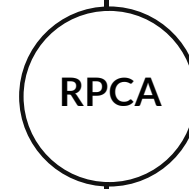
Department of General Services



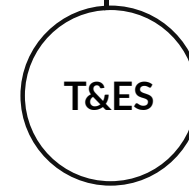
Department of Project Implementation



Information Technology Services



Department of Recreation, Parks, and Cultural Activities

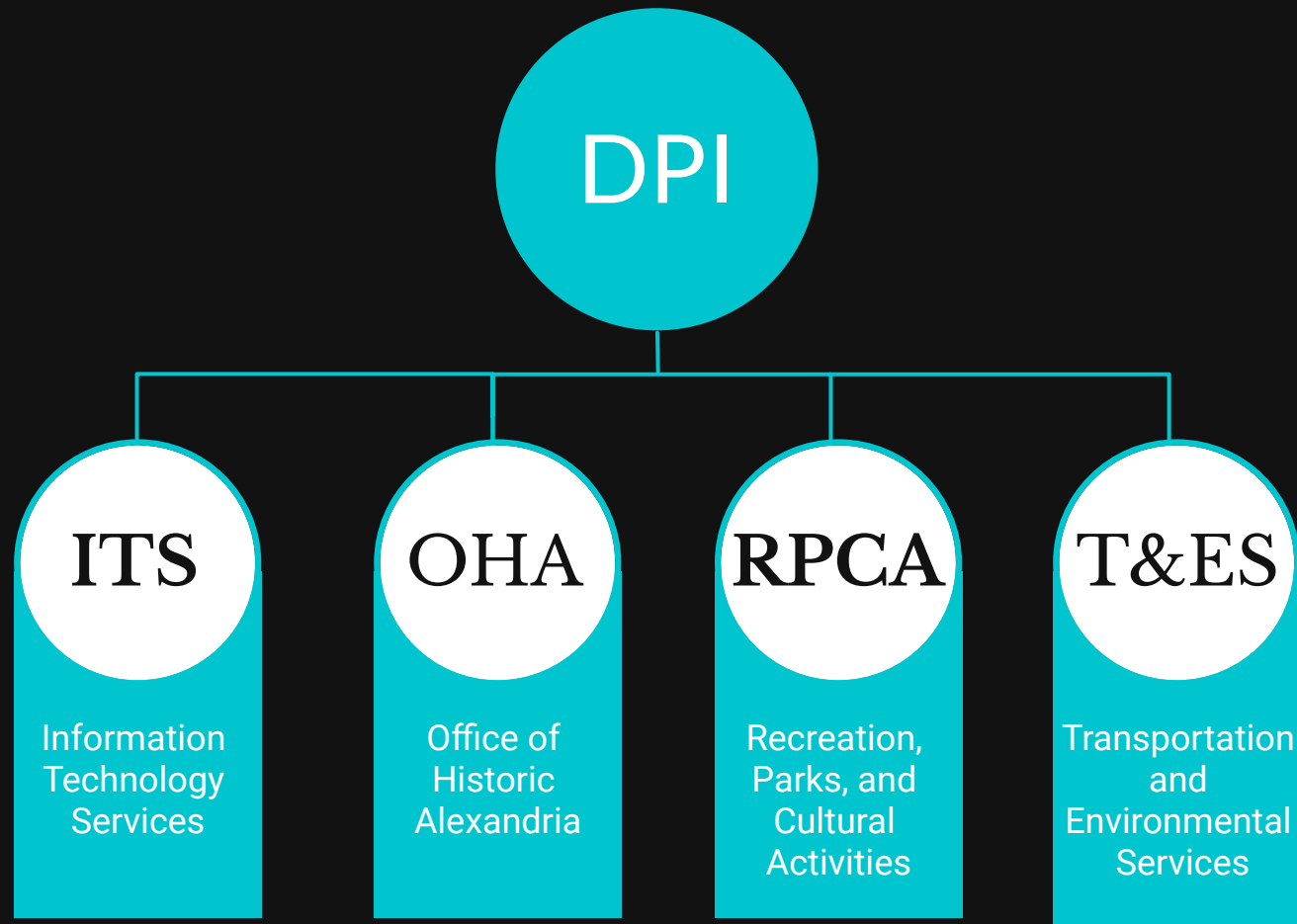


Department of Transportation and Environmental Services

DPI PROJECT TEAMS

Project
Management
Organization

Sponsor
Departments



CAPITAL PROJECT DELIVERY



Project Team: Leadership

Planning: Sponsor Department Project Manager
Design/Construction: DPI Project Manager



Project Team: Members

Internal: Subject Matter Experts, Public Information Officer, Division Leadership
External: Project Partner(s), Consultants, Subject Matter Experts, Contractor, CMI



Project Governance

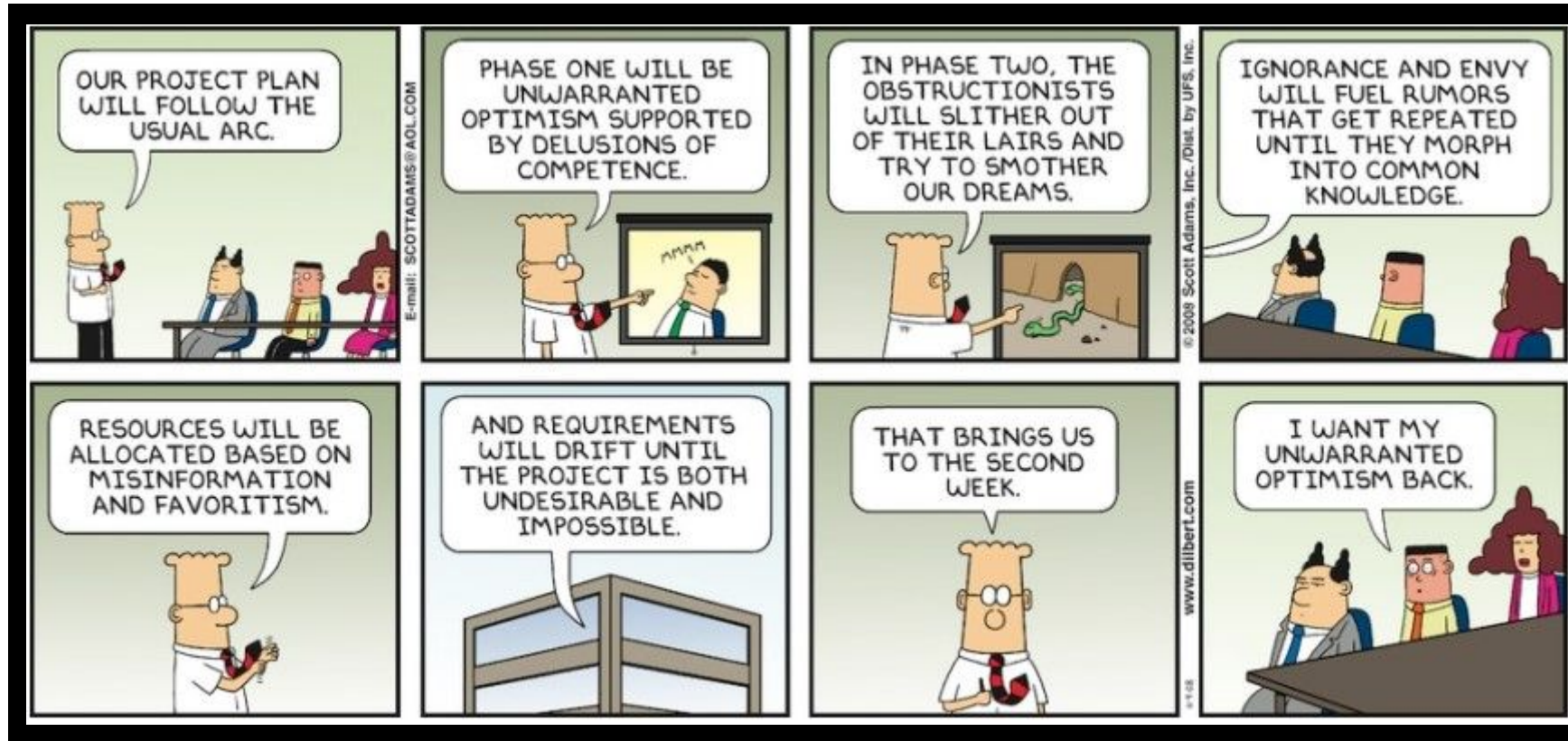
Department and City Leadership, City Council, Boards and Commissions



Stakeholders

Residents, Community Groups, Businesses, Developers, Visitors

HOW ARE CAPITAL PROJECTS CONSTRUCTED?



HOW ARE CAPITAL PROJECTS CONSTRUCTED?

Three Project Phases:



Planning



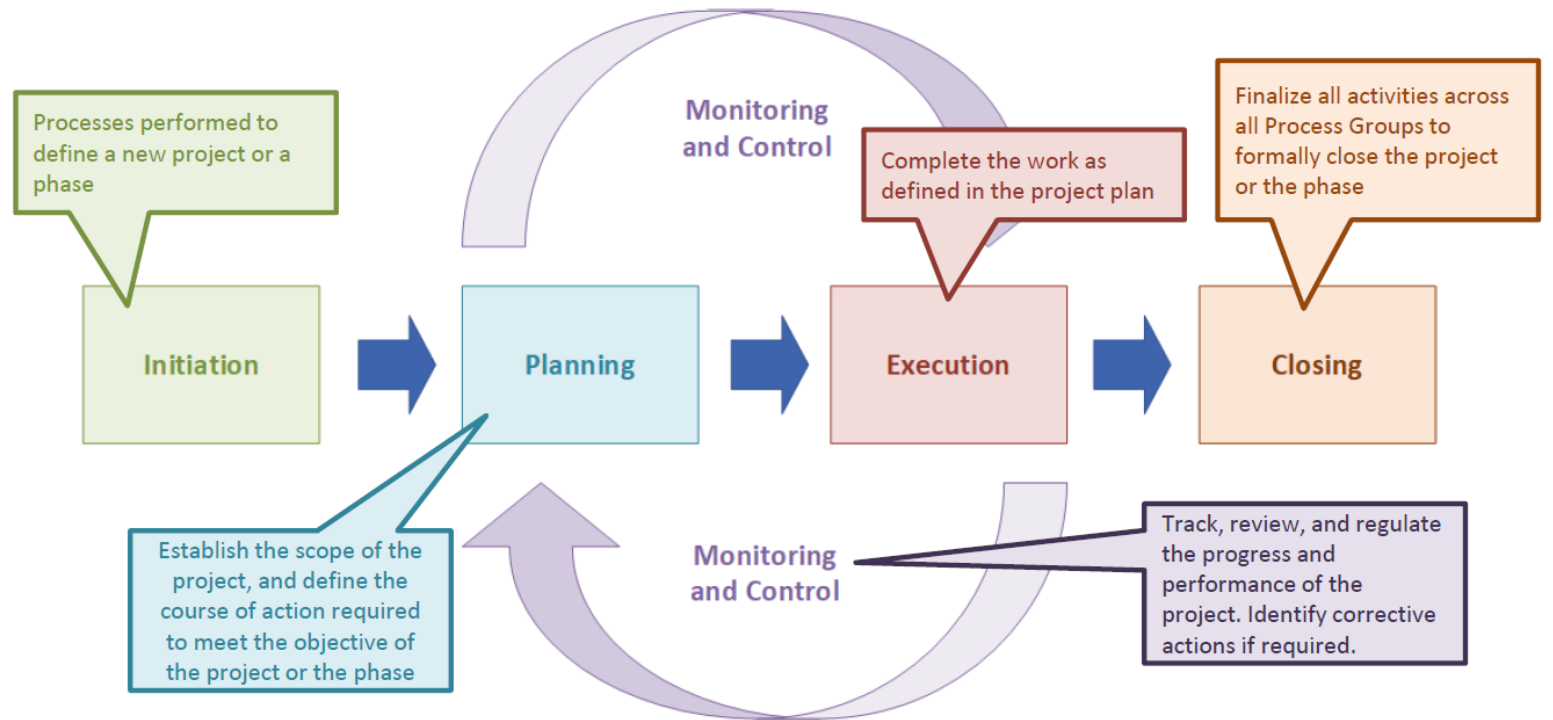
Design



Construction

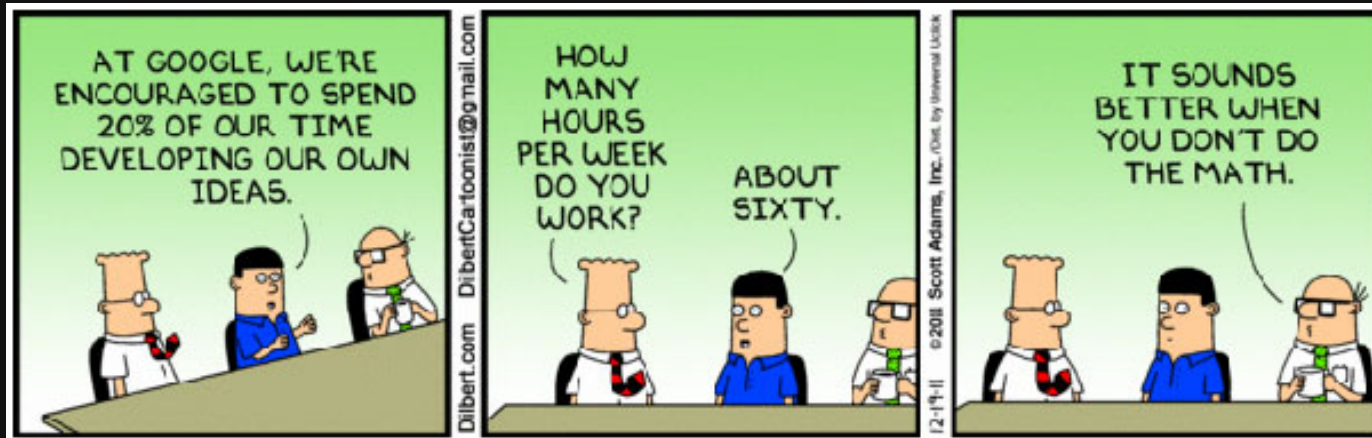
PM Process Organization

Follow PMI as standard for definitions, processes, and best practices.



PLANNING: IN THE BEGINNING...

Starting Point: Sponsor Department Project Lists



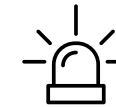
City Project Sources



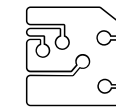
Master and Small Area Plans



Laws



Urgent Need



Technological Advancement



Maintenance Programs

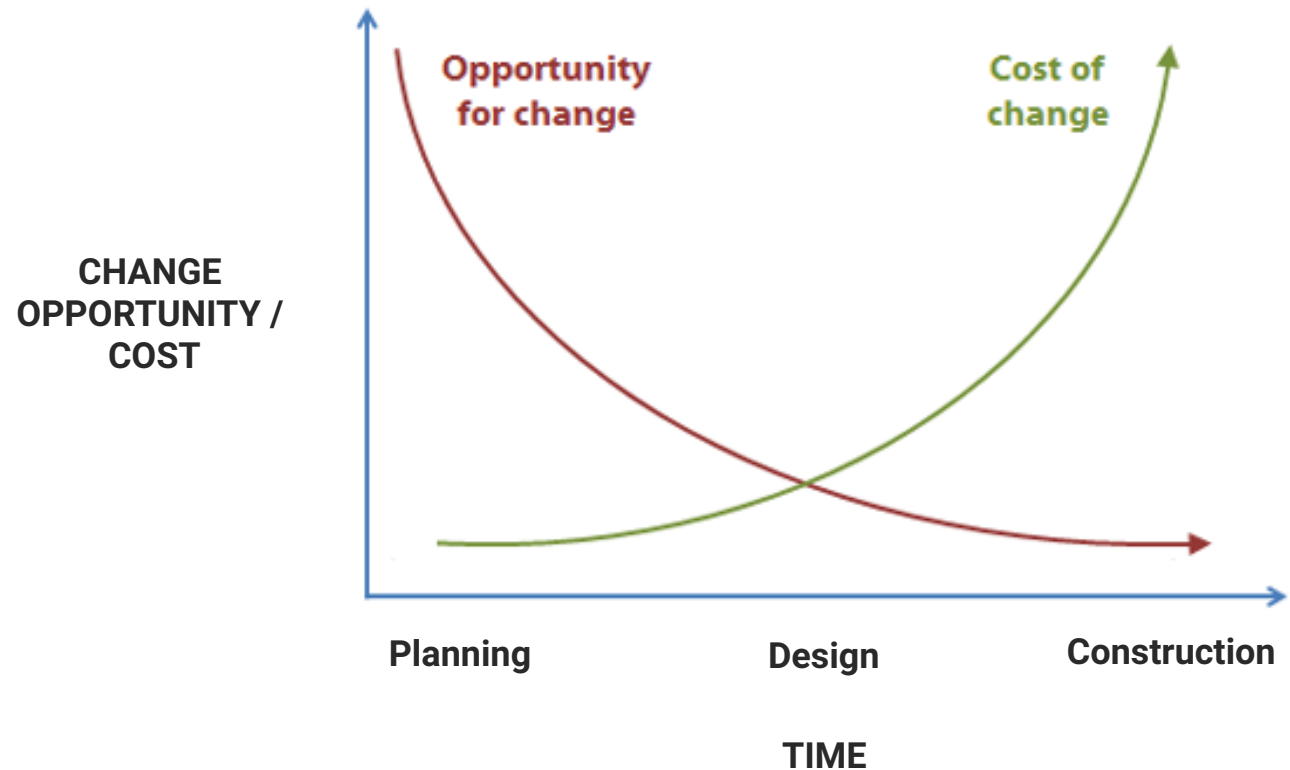


Historic Preservation

PLANNING: CAN WE DO THIS AND HOW?

Next Step: Information Gathering and Assessments

- 1 Community Input
- 2 Site Surveys
- 3 Needs Assessments
- 4 Land Rights
- 5 Initial Scope, Schedule, and Budget



PLANNING: MONEY!

(How Much and Where Does It Come From?)



External Funding

State:

Virginia Department of Environmental Quality: SLAF

Virginia Department of Transportation: SMART SCALE

Virginia Department of Rail and Public Transportation

Federal:

Federal Transit Administration: CMAQ, TIP

Federal Highway Administration: HSIP, RSTP

Federal Emergency Management Agency: BRIC

Third-Party:

Northern Virginia Transportation Authority



CIP Budget

Vetting/Prioritization

Council and Public Feedback

CIP Final Budget



DESIGN: SUBSTANCE AND DEFINITION

Starting Point:

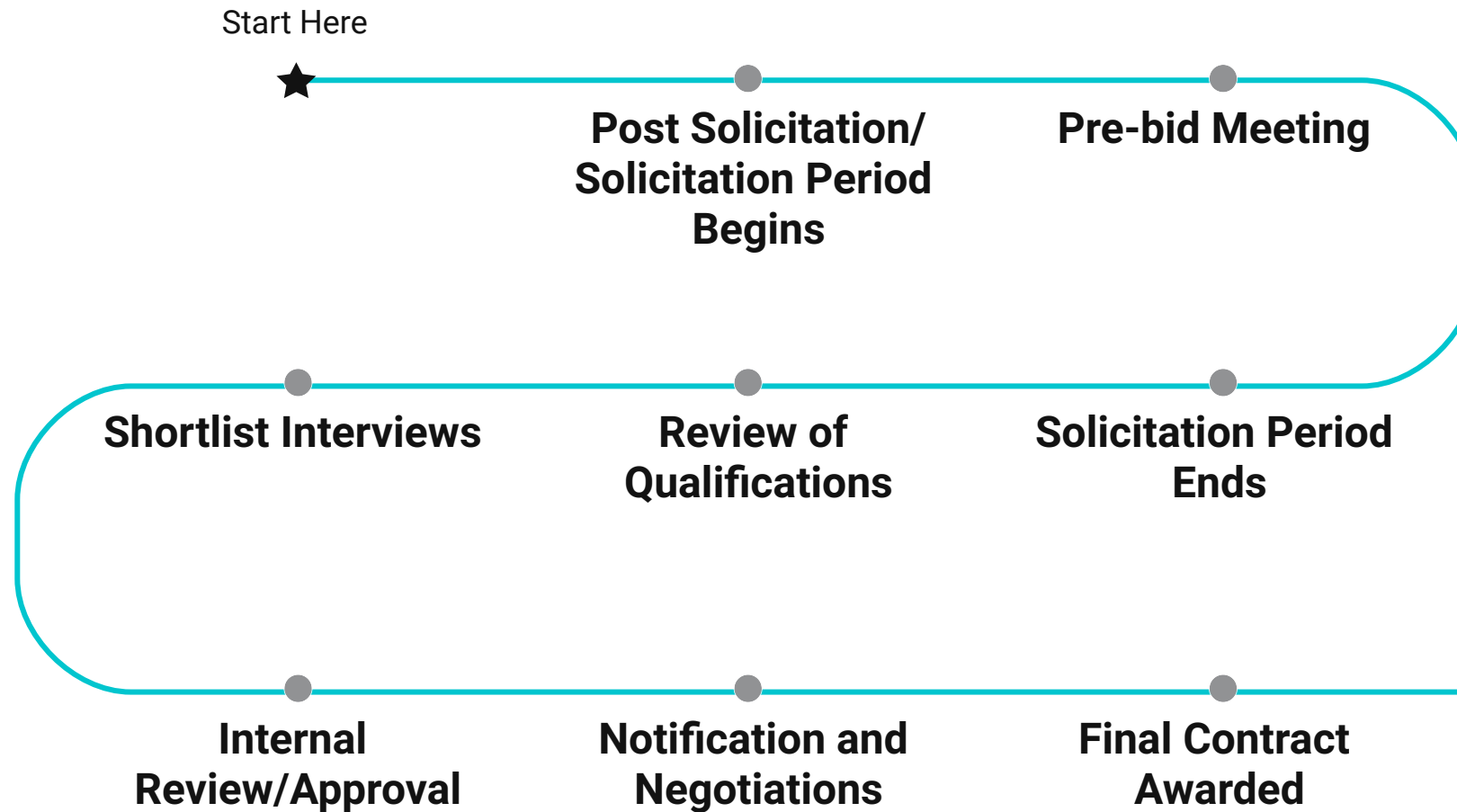
1

Detailed Scope, Schedule, and Budget

2

Design Procurement: Engineering, Landscape Architecture, Surveying, and Other Subject Matter Experts

DESIGN: RFQ PROCUREMENT PROCESS



DESIGN: MAJOR PROJECT ELEMENTS



Site Conditions

Environmental Reports
In-depth Surveys/Reports



Site Plan Development

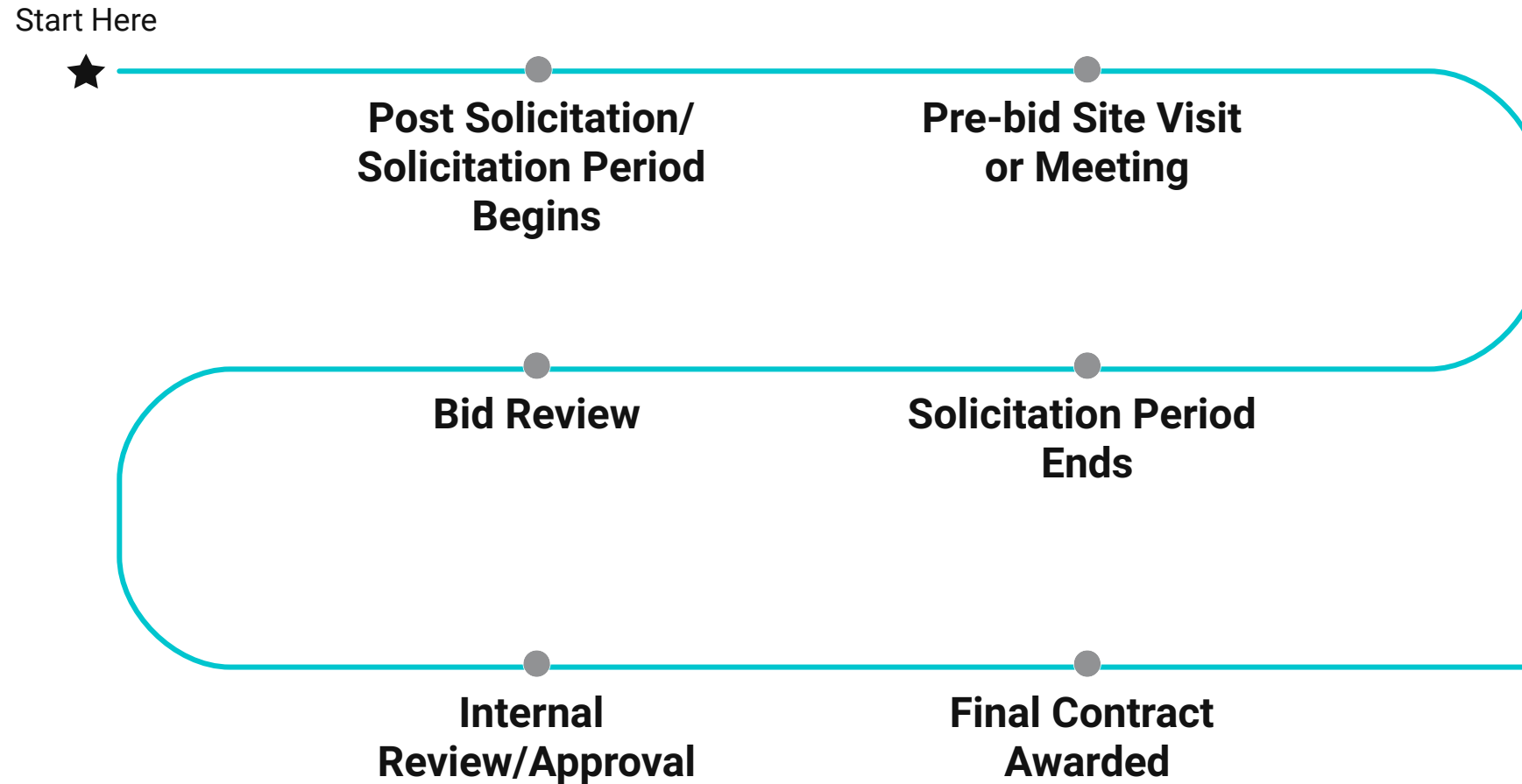


Community Engagement



Permits/Regulatory Requirements

CONSTRUCTION: ITB PROCUREMENT PROCESS



CONSTRUCTION: THIS IS REALLY HAPPENING!

PM and Inspector Roles and Responsibilities - Contract Management



Four Mile Run Connector Bridge: Site Conditions (2016)

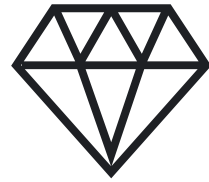


Four Mile Run Connector Bridge: Substantial Completion (2019)

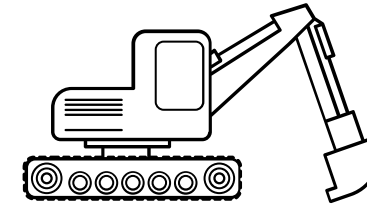


Four Mile Run Connector Bridge: Ribbon Cutting (2019)

DPI: WHAT ARE WE WORKING ON NOW?



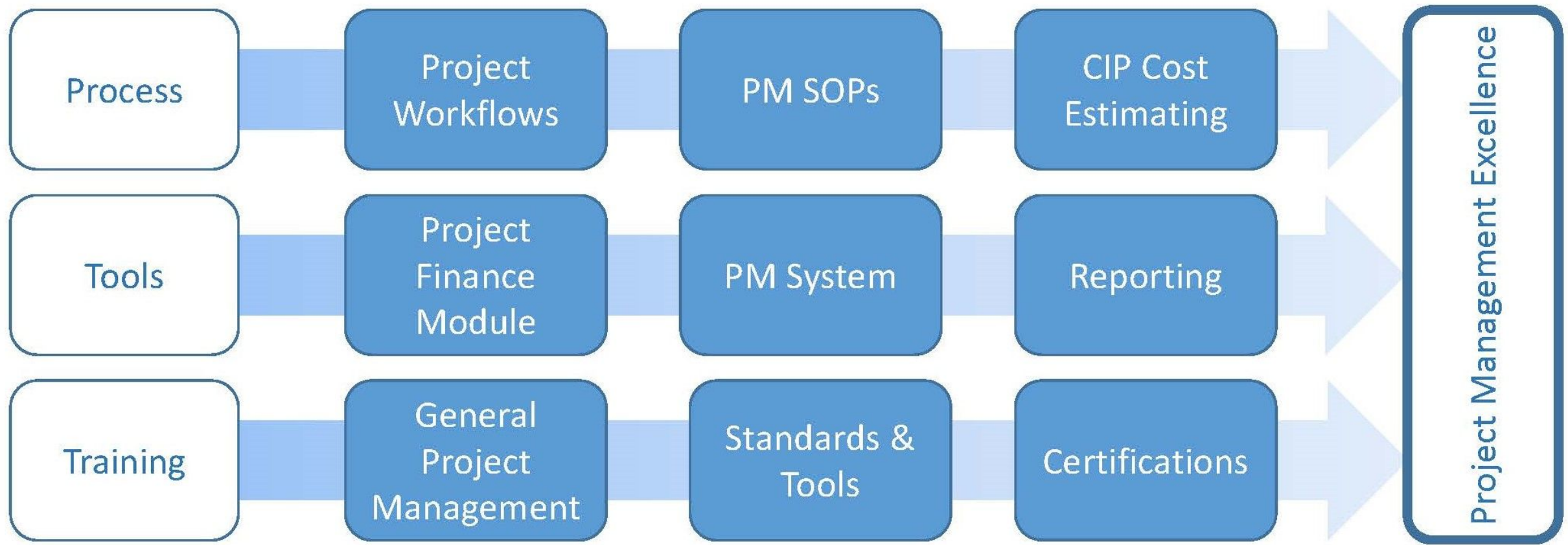
Project Management
Standards Initiative
(PMSI)



Active Design and
Construction Projects

PROJECT MANAGEMENT STANDARDS INITIATIVE (PMSI)





PROJECT MANAGEMENT STANDARDS INITIATIVE (PMSI)

POTOMAC YARD METRORAIL STATION

Sponsor Department: T&ES
Project Status: Construction
Total Budget: \$370 million
Substantial Completion: March 2022



South Pavilion - Rendering View 1



North Pavilion (12/2020)



North Pavilion - Rendering View 2



Station Headhouse Rendering



Station Headhouse (02/2021)



Site View - Looking North (02/2021)

CITY MUNICIPAL FIBER NETWORK

Sponsor Department: ITS

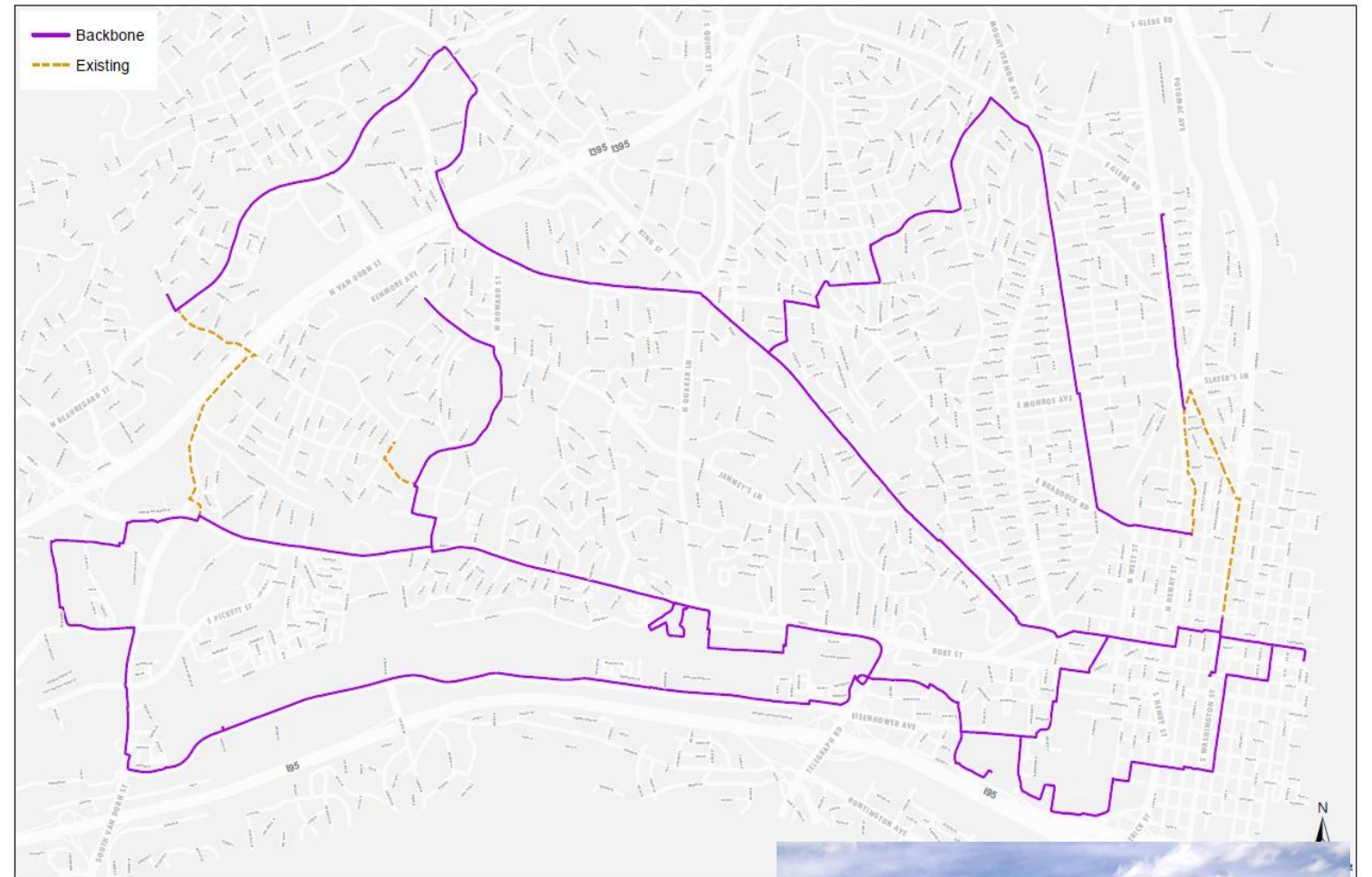
Current Status: Construction

Project Budget: \$19.2 million

Substantial Completion: April 2025

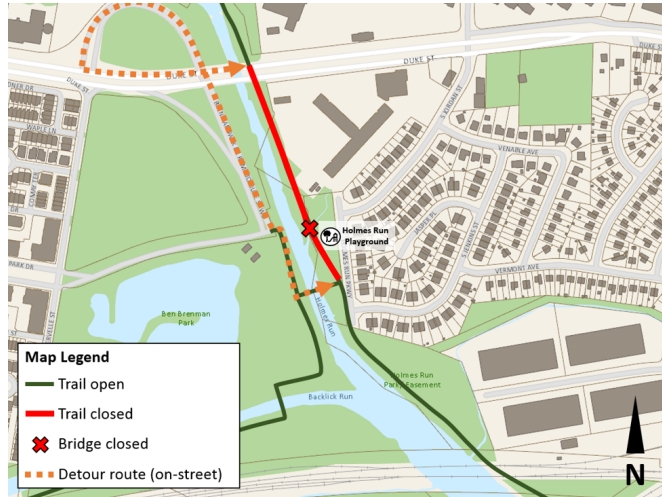
City-owned and operated fiber-optic network will:

- Connect approximately 90 City facilities
- Include 40 miles of 2-2" conduits
- 1 conduit for City/ACPS/Libraries
- 1 conduit for TBD private sector



Proposed Fiber-Optic Map (above)

Example of Fiber-Optic Cable (right)



HOLMES RUN TRAIL: FLOOD DAMAGE REPAIRS

Sponsor Department: RPCA
Current Status: Design/Construction
Project Budget: \$6 million

Project will:

- Repair damage to four sections of the Holmes Run Trail damaged in 2018 and 2019 storms.
- Complete design and construction in two phases



STORMWATER MANAGEMENT - FLOOD MITIGATION

Stormwater Management What Is the City Doing to Mitigate Flooding?

Four Critical Components

1. Outreach & Technical Assistance

- ✓ Proposed Flood Mitigation Grant Pilot
- ✓ Expand early-warning system & signage

2. Maintenance

- ✓ Hooff's Run Culvert
- ✓ Routine Efforts + Streams & Channels

3. Spot Improvements

- ✓ Localized drainage issues

4. Major Capacity Capital Investments

- ✓ Improving stormwater system capacity in an equitable manner



WATERFRONT FLOOD MITIGATION

Sponsor Department: T&ES

Current Phase: Design

Total Budget: \$102 million

Project must:

- Address four sources of nuisance flooding
- Ensure public access to the entire Waterfront
- Involve multiple strategies:
 - Innovative, green solutions
 - Value engineering
 - Project phasing





CONTACT INFORMATION

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